## State of California AIR RESOURCES BOARD

## **EXECUTIVE ORDER D-182-45**

Relating to Exemptions under Section 27156 and 38391 of the Vehicle Code

Walker Manufacturing Company (d.b.a. Tenneco, Inc.) "Series 81700 & 81900 Three-way Catalytic Converters"

WHEREAS, Vehicle Code Sections 27156 and 38395, and Title 13, California Code of Regulations (hereafter "CCR") Section 2222(h), authorize the California Air Resources Board and its Executive Officer to exempt new aftermarket catalytic converters from the prohibitions of Vehicle Code Section 27156 and 38391.

WHEREAS, Walker Manufacturing Company (Walker) of 2701 North Dettman Road, Jackson, Michigan 49201, has applied to the Air Resources Board for exemption from the prohibitions in Vehicle Code Sections 27156 and 38391 to market its new aftermarket Series 81700 & 81900 three-way catalytic converters (TWC) on selected 1994 through 2004 model year passenger cars and light-duty trucks 1 (LDT1) equipped with on-board diagnostic II (OBD-II) systems as specified in Appendix D-182-45 and incorporated herein. Series 81700 & 81900 TWCs will be used as replacements on vehicles equipped with single or dual catalytic converter systems as listed in Appendix D-182-45. These catalytic converters may be sold as a universal or direct fit system.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Operations Division by Health and Safety Code Section 39516 and Executive Order G-02-003, the Air Resources Board finds that the above aftermarket catalytic converters comply with the California Vehicle Code Sections 27156 and 38395 and Title 13, California Code of Regulations, Section 2222(h). Emission performance of the catalytic converters was based on durability bench-aging by Umicore Automotive Catalysts USA (Umicore) using the Air Resources Board-modified RAT-A bench-aging cycle for 100 hours, as specified in Appendix A to the "California Evaluation Procedures for New Aftermarket Catalytic Converters" as adopted on October 25, 2007.

WHEREAS, previous emissions and OBD II compatibility tests conducted by Walker Manufacturing Company using a 2000 3.8L Chevrolet Camaro, test group YGMXV03.8043, certified to passenger car weight category and Low Emission Vehicle (PC, LEV) standards. The round catalytic converter (Series 81700) and oval catalytic converter (Series 81900) were respectively installed and tested on the same test vehicle. The following are the test results in grams per mile:

	<u>NMOG</u>	<u>CO</u>	<u>NOx</u>
PC 100K LEV standards	0.090	4.2	0.3
Series 81700 TWC Tests 1 & 2	0.087	1.0	0.2
Series 81900 TWC Tests 1 & 2	0.081	0.7	0.1

THEREFORE, IT IS HEREBY RESOLVED that Walker Manufacturing Company's Series 81700 & 81900 TWCs are exempted from the prohibitions in Vehicle Code Sections 27156 and 38391 for installation on the approved vehicle applications specified in Appendix D-182-45 subject to the following conditions:

- No changes are permitted to the catalytic converters as described in the application for exemption. Any changes to the catalytic converters or any of their components, and other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
- 2. Marketing of the catalytic converters using identifications other than those shown in the exemption application, and in this Executive Order, or marketing of the catalytic converters for application other than the ones shown in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of these products shall not be construed as an exemption to sell, offer for sale, or advertise any components of the catalytic converters as individual devices.
- 3. Any oral or written references to this Executive Order or its content by Walker Manufacturing Company, its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any emission reduction claims for the catalytic converters and is only a finding that the catalytic converters are exempt from the prohibitions of Vehicle Code Sections 27156 and 38391.
- 4. Walker Manufacturing Company's installation instructions for the new catalytic converters must conform to requirements in Section (h) of the "California Evaluation Procedures for New Aftermarket Catalytic Converters," as adopted October 25, 2007.
- 5. Installation of the catalytic converters shall not cause the relocation of an oxygen sensor. Oxygen sensors must be installed in the same location, position and orientation as prescribed in the original equipment manufacturer's configurations.
- 6. Upon installation, the catalytic converters must carry a manufacturer's warranty for five (5) years or 50,000 miles as prescribed in Section (f)(2) of the "California Evaluation Procedures for New Aftermarket Catalytic Converters," as adopted October 25, 2007.
- 7. Walker Manufacturing Company and its vendors may not advertise the new aftermarket catalytic converters as "high flow or easy flow" catalytic converters or use any phrase that could make them appear to perform better than the original equipment manufacturer (OEM) catalytic converters.
- 8. Any marketing arrangement of the new aftermarket catalytic converter by a third party, which involves the use of packaging identification different from the ones described in this Executive Order, must be approved by the Air Resources Board prior to shipment.

- 9. Walker Manufacturing Company, its associates, vendors, other businesses and individuals associated with Walker Manufacturing Company may not sell or supply new aftermarket catalytic converter substrates to a third party to be assembled in a different facility and marketed under this Executive Order without approval from the Air Resources Board.
- 10. Walker Manufacturing Company shall comply with the quality control procedures and reporting requirements in Section (f)(5) of the "California Evaluation Procedures for New Aftermarket Catalytic Converters," as adopted October 25, 2007.
- 11. Quality control reports must be submitted on a quarterly basis and warranty information reports on a semi-annual basis, starting with periods covering January 1 through March 31, 2009 and January 1 through June 30, 2009, respectively.
- 12. Walker Manufacturing Company must provide a permanent label or stamp as specified under Section (f)(1) of the "California Evaluation Procedures for New Aftermarket Catalytic Converters," as adopted on October 25, 2007.
- 13. Walker Manufacturing Company's vehicle application catalog must conform with the requirements specified under Section (f)(4) of the "California Evaluation Procedures for New Aftermarket Catalytic Converters," as adopted on October 25, 2007.

Executive Order D-182-40 dated December 17, 2008, is hereby superseded and of no further force and effect.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after a 30-day written notice of intention to revoke it, during which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within 30 days of receipt of the request, and the order may not be revoked until a determination is made, after the hearing, that grounds for revocation exist.

Executed at El Monte, California, this 27th day of March 2009.

Annette Hebert, Chief

Mobile Source Operations Division

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/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC	ZIWC	21WC	2TWC	TWC	TWC	TWC	TWC	J.M.F	2TWC	2TWC	2TWC	2TWC	2TWC	2TWC	TWC	2TWC	2TWC	TWC	21 WC	TWC	TWC	TWC	TWC	TWC	TWC	JWL	TWC	TWC	TWC	JML	TWC
700	Expanst Type	S	S	S	S	S	S	ء د	ء د	مام	S	S	S	S	S O	0 0	٥	Δ	Δ	۵	م	nυ	۵	Δ	S	عاد	S	S	S	S	S	S	20	S	S	S	n v	S
ny 81	weight Class	PC	PC C	PC	<u>ک</u> ا	<u>کا</u> (	ည	7 2	2 2	<u> </u>	PC	PC	Ω S	S (	3 2	١	20	PC	PC	ည	ည	۲	20	PC	ည္မ	2 6	2	S	PC	PC	S S	2 2	٦ ۾	<u>ا</u> ا	ည္က	2	7 2	ω
ring Compa	Sertification Level	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	ILEV	LEV1 LEV	ILEV TIEV	TIEV	TLEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEVI LEV	TIEV	TLEV	TLEV	TLEV	TLEV	TLEV	LEVI LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEV1 LEV	TIER1	TIER1	TIER1	TIER1	TIERI	ILEV TICD1	TIERI	TIER1	TLEV TTEB 1	TLEV	TIER1
Walker Manufacturing Company 81700 / 81900	Test Group Name	1ADXV01.8347	1ADXV01.8336	1ADXV01.8346	1ADXV01.8346	1ADXV01.8336	1ADXV01.8347	2ADXV04.2333	2ADAV04.2333	2ADXV04.2335	2ADXV01.8346	2ADXV01.8336	2ADXV01.8347	2ADXV01.8347	2ADXV01.8346	3ADXV04 2335	3ADXV04.2335	3ADXV04.2335	3ADXV04.2335	3ADXV04.2335	3ADXV04.2335	3ADXV01.8346	4ADXV04.2345	4ADXV04.2345	4ADXV01.8346	4VWXV03.2220	4ADXV01.8346	TGM2.2V8GKEK	TGM3.1V8GFEK	TGM3.8V8GFFK	TGM3.1V8GFEK	TGM3.8V8GFFK	TCM2 1VOCEEV	IGM3.1V8GFEK	VGM3.1V8G1EK	VGM3.8V8G2EK	VGM3.8V8G1FK	VGM3.8V8G1FK
3	Engine Size (liters)	1.8	1.8	1.8	1.8	2.0	1.8	4:4	4.2	4.2	1.8	1.8	1.8	1.8	0 0	4.0	4.2	4.2	4.2	4.2	4.2	ν α	4.2	4.2	1.8	3.5	1.8	2.2	3.1	3.8	3.1	8.6	2.4	7.7	3.1	3.8	2 8 2 8	3.8
	Model	TT Quattro	TT Quattro	∏ Quattro	F		11	20	85	88	TT Quattro		TT Quattro	F	=  =	PCK	RS6	98	98	28	S8	T	A8 Quattro	A8 Quattro	T Quattro	T Quattro		Century	Century	Park Avenue	Regal	Riviera	Skylark	SKylark	Century	Lesabre	Park Avenue	Regal
	Маке	Audi	Audi ibus	Audi	Andi	Audi	Buick	Buick	Buick	Buick	Buick	BUICK	Buick	Buick	Buick	Buick	Buick																					
	Model	2001	2001	2001	2001	7007	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002	2003	2003	2003	2003	2003	2003	2004	2004	2004	2004	2004	1996	1996	1996	1996	1996	1996	1930	1997	1997	1997	1997
	No.	127	128	129	130	131	132	122	135	136	137	138	139	140	141	143	144	145	146	147	148	150	151	152	153	155	156	157	158	159	160	161	162	163	164	165	167	168

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	MFR Part Number	81703	81703	81909	81701	81702	81702	81702	81703	81909	81703	81703	81703	81701	81701	81702	81909	01909	81909	81703	81909	81701	81909	81703	81/02	81703	81702	81909	81703	81702	81909	81909	81909	81909	81909	81909	81909	81909	81909
	Converter Part Type	UNIVERSAL	INTVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL																										
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	Total Converter	1	1	1			1		1 -	1 1	-1	1	1	1	-	-	7	1	7 -	1	-	1	1	1	-1-	<u>'</u>	-	-	1	1	1	1	1	1	1			-	1-1
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	JMC	J.W.C	TWL	TWC	JWC	JWC JWC	TWL	ZWL	TWC	TWC	TWC	TWC	JWC	ZWL	TWC	JWL JWL	TWC																
700	Exhaust Type	S	S	S	S	S	S	Ω	S	S	S	S	S	S	S	S	S	n	nυ	ď	S	S	S	S	nυ	) V	S	S	S	S	S	S	S	S	S	S	S	nυ	S
-45 ny 81	Weight Class	PC	PC	PC	2	ည	کار	7 6	20	S S	Ω	PC	PC	ည	2	2	۲	2 2	7 6	2 2	2	PC	PC	2	7 2	2 6	2	2	2	Ω O	PC	ЪС	S	PC	Ω Ω	2	2	7 6	50
Appendix D-182-45 acturing Company 8	Certification Level	TLEV	TIER1	TLEV	TLEV	TIER1	IEK1	I LEV	TIFRI	TLEV	TIER1	TLEV	TIER1	TLEV	TIER1	TLEV	ILEV TIEV	TIEV	11.EV	TIFV	TLEV	LEV1 LEV	LEV1 LEV		LEVI LEV	I FV1 (FV			LEV1 LEV				LEV1 LEV			LEV1 LEV		LEVI LEV	
Appendix D-182-45 Walker Manufacturing Company 81700	Test Group Name	VGM3.8V8G2EK	VGM3.8V8G1FK	VGM3.8V8G2EK	VGM2.4VJG2EK	VGM3.1V8G1EK	WGMXV03.1043	WGMXV03.1044	WGMXV03.8051	WGMXV03.8048	WGMXV03.8051	WGMXV03.8048	WGMXV03.8051	WGMXV02.4026	WGMXV03.1042	XGMXV03.4042	XGMXV03.8048	VCMVV02.0050	XGMXV03 8051	XGMXV03.8048	XGMXV03.8051	YGMXV03.8043	YGMXV03.8043	YGMXV03.8043	1GMV/03.8043	1GMXV03.8043	2GMXV03.8043	2GMXV03.8043	2GMXV03.8043	3GMXV03.8043	YGMXV04.6066	YGMXV04.6066	1GMXV04.6065	1GMXV04.6065	1GMXV04.6065	2GMXV04.6065	2GMXV04.6066	2GMXV04.6065	3GMXV04.6065
3	Engine Size (liters)	3.8	3.8	3.8	2.4	3.1	7.	-1 α γ α	38	3.8	3.8	3.8	3.8	2.4	3.1	3.1	200	000	0 00	38	3.8	3.1	3.8	3.8	700	38	3.1	3.8	3.8	3.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6	0 4	4.6
	Model	Regal	Riviera	Riviera	Skylark	Skylark	Century	Lecahro	Park Avenue	Park Avenue	Regal	Regal	Riviera	Skylark	Skylark	Century	Dark Avenue	Dark Avenue	Regal	Regal	Riviera	Century	Park Avenue	Regal	Dark Avenue	Regal	Century	Park Avenue	Regal	Century	Deville	Seville	Deville	Eldorado	Seville	Deville	Deville	Seville	Deville
	Маке	Buick	Cadillac	Cadillac	Cadillac																																		
	Model	1997	1997	1997	1997	1997	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999	1999	1000	1999	1999	1999	2000	2000	7000	2001	2001	2002	2002	2002	2003	2000	2000	2001	2001	2001	2002	2007	2002	2003
		169	170	171	7//	1/3	174	176	177	178	179	180	181	182	_	4	186	┸		┺	Ш	ш	4	193	_	1	<b>!</b>	_	Ш	Н	_	202	4	4	4	+	/07 000 000 000	+	210

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	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	L L L L	UNIVERSAL	UNIVERSAL	UNIVERSAL																						
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/ 81900	Converter	TWC	TWC	TWC	TWC	TWC	TWC	JMC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	JWC	I WC
200	Expanst Type	S	S	S	S	S	S	S	S	ΛV	S	S	S	S	S	S	S	S	7	م ر	٥ ر	n S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	٥	۸
ny 81	Weight Class	δ	PC	ЬC	PC	ည	ည	٦ ا	ည္က	ی د	ည	δ	ည	PC	bC	PC	ည	S S	2 2	ן נ	2 2	7 2	S	PC	PC	S S	2 0	S	PC	PC	Ъd	PC	PC	) J	ပ	ပ္	2	LDT1	LDII	7
ring Compa	Certification Level	LEV1 LEV	TLEV	TIER1	TLEV	TIER1	TIER1	ILEV	TIER1	ILEV TI FV	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TLEV	TIERI	TICKI	ILEV TTED 1	TIED1	TLEV	TIER1	TIER1	TIER1	TIERI	TLEV	TIER1	TLEV	TIER1	TLEV	TLEV	TLEV	TIER1	TLEV	TIER1	TLEV	TLEV TTED 1	TIEKI	ILEV
Walker Manufacturing Company 81700 / 81900	Test Group Name	3GMXV04.6065	S1G2.3VJG2GK	TGM2.2V8GKEK	TGM2.2V8G2EK	TGM3.1V8GFEK	TGM2.2V8GKEK	I GMZ.ZV8GZEK	TGM2.4VJGKEK	TGM2.4VJGZEK	TGM2.2V8GKEK	TGM3.1V8GFEK	TGM3.1V8GFEK	TGM3.4VJGFEK	TGM3.1V8GFEK	TGM3.4VJGFEK	VGM2.2V8G2EK	VGM2.2V8G1EK	VGM2.4VJG1ER	VGM2.4VJGZEK	VOIND AVIOLEN	VGM2.4VJG2EK	VGM3.1V8G1EK	VGM3.1V8G1EK	VGM3.4VJG1EK	WGMXV02.2022	WGMXV02.4026	WGMXV02.4025	WGMXV03.1044	WGMXV03.1043	WGMXV03.8048	WGMXV02.4026	WGMXV03.1044	WGMXV03.1043	WGMXV03.1044	WGMXV03.1043	WGMXV03.8048	WGMX102.2124	WSKX11.59CMC	XGINAVUS.0040
3	Engine Size (liters)	4.6	2.3	2.2	2.2	3.1	2.2	7.7	2.4	2.4	2.2	3.1	3.1	3.4	3.1	3.4	2.2	2.2	7.4	2.4	7.7	2.4	3.1	3.1	3.4	2.2	2.4	2.4	3.1	3.1	3.8	2.4	3.1	3.1	3.1	3.1	3.8	2.7	1.0 0	0.0
	Model	Seville	Cavalier	Beretta	Beretta	Beretta	Cavalier	Cavaller	Cavalier	Corsica	Corsica	Corsica	Lumina	Lumina	Monte Carlo	Monte Carlo	Cavalier	Cavalier	Cavaller	Lavaller	FUIIIII	Malibu	Malibu	Monte Carlo	Monte Carlo	Cavalier	Cavalier	Cavalier	Lumina	Lumina	Lumina	Malibu	Malibu	Malibu	Monte Carlo	Monte Carlo	Monte Carlo	S10 Tracker	Iracker	Camaro
	Маке	Cadillac	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chevrolet	Chavrolot	Chevrolet	Choursolat	Chevrolet	Chaurolet	Cnevrolet																
	Model	2003	1995	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1997	1997	1007	1997	1007	1997	1997	1997	1997	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999
	Ö	211	212	213	214	215	216	717	218	220	221	222	223	224	225	526	227	228	220	230	222	233	234	235	236	237	239	240	241	242	243	244	245	246	247	248	249	250	152	727

	MFR Part Number	81701	81701	81701	81702	81701	81701	81702	81703	81907	81701	81701	81701	81702	81702	1702	81907	81909	81701	81701	81702	81702	81702	81/02	81701	81701	81701	81702	81703	81701	81702	81701	81701	81907	81907	81701	81/01	81907	81907
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	Converter Part Type	UNIVERSAL																																					
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	Monitored Converter	-	1		-1-	1	-	F			-	1-	1	1	1	1	-	-	1-	-	1	7	-	7	-			ᅱ			-1			-			- -		-
	Total Converter	1	1	-		1-	-	1	1	-1	1	1	1	1	1	1		1	1	-1	1	1		7	1	1	1	1	1		1	-					٦.	-1-	-]
/ 81900	Converter Type	TWC	TWC	TWC	TWC	JWL	TWC	JWL	TWC	TWC	TWC	TWC	JWT	TWC	JWC	J.W.C	) MC																						
81700	Exhaust Type	S	S	S	S	ی ر	S	S	S	S	nυ	S	S	S	S	S	S	S	S	S	S	S	S	sν	S	S	S	S	S	S	S	S	S	s	s	s	S	مار	^
Iny 81	Weight Class	2	S	2	2	2 2	2	δ	PC	LDT1	١	2 0	2	PC	PC	ည	<u>م</u>	2	2 2	S S	PC	S	<u>ک</u>	ج اد	2 2	S S	S	S S	PC	ပ္ထ	S	ည	ပ္ထု	LDT1	EDT1	ည	2 2	۲ ۲	2
acturing Company		TLEV	LEV1 LEV	LEV1 LEV	TLEV	I FV1   FV	LEV1 LEV	TLEV	TLEV	TLEV	LEVI LEV	TIFV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	TLEV	LEV1 LEV	I EVI I EV	LEV1 LEV	TLEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LIERI	TIERI											
Walker Manufacturing	Test Group Name	XGMXV02.2022	XGMXV02.2023	XGMXV02.4027	XGMXV03.4042	XGMXV02.6046	XGMXV03.1043	XGMXV03.4042	XGMXV03.8048	XGMXT02.2122	YGMXV03.8043	YGMXX02.7022	YGMXV02.4022	YGMXV03.8043	YGMXV03.8043	YGMXV03.8043	YGMXX02.2023	1GMXV03.8043	1GMXV02.2024	1GMXV02.4022	1GMXV03.8043	1GMXV03.8043	1GMXV03.8043	1GMXV03.8043	2GMXV02.2024	2GMXV02.4022	2GMXV02.4022	2GMXV03.8043	2GMXV03.8043	2GMXV03.8043	2GMXV03.8043	3GMXV02.2025	3GMXV03.8043	3GMXT02.2121	3GMXT02.2122	4GMXV02.2027	4GMXV02.2027	SDSZ.UVJGFEK	IDSZ.UVJGFEK
3	Engine Size (liters)	2.2	2.2	2.4	3.1	2.0	3.1	3.1	3.8	2.2	3.8	2.5	2.4	3.4	3.1	3.4	2.2	3.8	2.7	2.4	3.4	3.1	3.1	3.4 2.8	2.2	2.2	2.4	3.4	3.8	3.1	3.4	2.2	3.1	2.2	2.2	2.2	2.2	7	7
	Model	Cavalier	Cavalier	Cavalier	Lumina	Malibu	Malibu	Monte Carlo	Monte Carlo	S10	Camaro	Cavalier	Cavalier	Impala	Malibu	Monte Carlo	S10	Camaro	Cavalier	Cavalier	Impala	Lumina	Malibu	Monte Carlo	Cavalier	Cavalier	Cavalier	Impala	Impala	Malibu	Monte Carlo	Cavalier	Malibu	S10	S10	Classic	Malibu	Sebring	Sebring
	Make	Chevrolet	Chrysler	Chrysler																																			
	Model	1999	1999	1999	1999	1999	1999	1999	1999	1999	2000	2000	2000	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2003	2003	2003	2003	2004	2004	1995	1996
	ģ	253	254	255	256	25g	259	260	261	262	263	265	266	267	268	569	270	271	273	274	275	276	277	278	280	281	282	283	284	285	586	287	288	589	290	291	292	252	294

	MFR Part Number	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81906	81906	81900	81907	81907	81907	81907	81706	81706	81706	81706	81706	81706	81706	81706	81706	81706	81706	81706	81706	81707	81707	81706	81/06
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	LINTVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL						
	Conv. Location	5	n	n	Э	Ω	)	9	>	<b>&gt;</b>  =	2	-	-	>	Э	n	n	<b>&gt;</b>	> =	9=	P	2	∍	2	<b>&gt;</b>  =	) >	Э	n	n	n	>	n	n	)	5	5	)	5	5	9
	Monitored Converter	口	-	1	-	1					╬	-	-	Н	-	1	-1	1	1	╬	╚	-	-		╬	上	-	1	1			-				-	寸	<u> </u>	₫.	1
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/ 81900	Converter	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	JWL	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	±MC	TWC	TWC	J.M.C	TWC	TWC	TWC	JW.	J.M.						
700	Expanst Type	S	S	S	S	S	S	S	S	ν	v	S	S	S	S	S	S	S	nu	n v	S	S	S	S	ΛV	S	S	S	S	S	S	S	S	S	S	S	S	S	S C	n
ny 81	Weight Class	PC	PC	PC	ЪС	PC	Ω.	D D	ည	کا گ	٥	<u> </u>	δ	PC	Ъď	ЪС	PC	LDT1	LDT	LDT1	J M	LDT1	LDT1	<u>۵</u>	۲ ۲	PC	PC	PC	ЪС	ည	ည	ည	S S	LDT1	2	S S	2	S S	٦ إ	1011
ing Compa	Certification Level	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TIERI	TIFR1	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TIERI	TIEKT	TIEV	TIEV	LEV1 LEV	TLEV	TIER1	TIFRI	TIER1	TLEV	11ER1	TIER1	LEV1 LEV	TLEV	1 CEV	ILEV							
Walker Manufacturing Company 81700 / 81900	Test Group Name	VDS2.0VJGKEK	WDSXV02.0GBK			TDS2.0VJGFEK	VDS2.0VJGKEK		XDSXV02.0GBK	SDSZ.0VJGFEK	TDS2 OVIGEEK	TDS2.0VJGFEL	VDS2.0VJGKEK	VDS2.0VJGFEK	WDSXV02.0GBK	WDSXV02.0GBP	TSK1.3V5GDFB	TSK1.61JGHHB	WCMYTO 2124	XGMXT02.2124	YGMXX02 2023	3GMXT02.2122	3GMXT02.2121	SHN2.7VJG1EK	THN2 2VJGKEK	THN2.7VJG1EK	THN2.2VJGKGK	THN2.2VJGFEK	THN2.2VJGFFK	THN2.3VJGFEK	VHN2.2VJGKFK	VHN2.2VJGKEK	VHN2.7VJG1EK	VHN2.01JG2EK	VHN2.2VJGKGK	VHN2.2VJG1EK	WHNXV02.3PA3	WHNXV02.3PL2	WHNXV03.0FLZ	WHINAIUZ.UULZ
>	(Signe Size (liters)	2	2	2	2	2	2	7	7	24	1	2	2	2	2	2	1.3	1.6	2.0	2.5	22	2.2	2.2	2.7	2.7	2.7	2.2	2.2	2.2	2.3	2.2	2.2	2.7	7	7.7	2.2	2.3	2.3	2	7
	Model	Sebring	Sebring	Sebring	Avenger	Avenger	Avenger	Avenger	Avenger	Summit	Talon	Talon	Talon	Talon	Talon	Talon	Metro	Tracker	Sonoma	Sonoma	Sonoma	Sonoma	Sonoma	Accord	Accord	Accord	Odyssey	Prelude	Prelude	Prelude	Accord	Accord	Accord	CR-V	Odyssey	Prelude	Accord	Accord	Accord	LR-v
	Make	Chrysler	Chrysler	Chrysler	Dodge	Dodge	Dodge	Dodge	Dodge	Facile	Facile	Eagle	Eagle	Eagle	Eagle	Eagle	Geo	oe Ceo	CAC	GMC	GMC	GMC	GMC	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	HOliud
	Model	1997	1998	1999	1995	1996	1997	1998	1999	1995	1996	1996	1997	1997	1998	1998	1996	1996	1000	1999	2000	2003	2003	1995	1996	1996	1996	1996	1996	1996	1997	1997	1997	1997	1997	1997	1998	1998	1998	1920 1
		295	596	297	298	299	300	301	302	303	305	306	307	308	309	310	311	312	317	315	316	317	318	319	320	322	323	324	325	326	327	328	329	330	331	332	333	334	335	330

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	MFR Part Number	81706	81706	81707	81707	81/06	81/06	81/06	81707	81707	81706	81706	81706	81/0/	81/0/	81706	81706	81707	81707	81707	81706	81706	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81706	81/06	81907	81907	81706	01007
	Converter Part Type	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	LINIVERSAL	UNIVERSAL	LACTOR VICE																
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r	Monitored Converter	-				-	7	- -	-	1-1	1	-		-	┪-	1-	-	1			1-	1	ᅱ	-	7	1	1/2	7	7	2	2			٦,	-1-	1-	H	İ
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/ 81900	Converter	TWC	JWL	TWC	TWC	JWC	IWC	JWL	JWL	TWC	TWC	TWC	TWC	TWC	)WI	TWC	TWC	JML	TWC	TWC		TWC	TWC	TWC	ZTWC	21WC	2TWC	2TWC	2TWC	2TWC	2TWC	TWC	TWC	JMC	JWC	TWC	TWC	
$\{ [$	Exhaust Type	S	S	S	S	S	S	S	nυ	S	S	S	S	S	S O	n S	S	S	S	S	S	S	S	S	م د	ع د	ماد		۵	Ω	۵	S	S	S	ςV	S	S	
10 A	Weight Class	PC	PC	PC	ည	S I	LDT1	S S	טר	PC	LDT1	DC	PC	ည္မ	7	2 2	PC	Эd	S	S S	S C	PC	PC	S S	ပ္ကုပ္	2 6	20	2	D D	PC	PC	PC	ည	S F	ווי	LDT1	PC	
Manufacturing Company 61/00	Certification Level	TIER1	TIER1	LEV1 LEV	TLEV	TLEV	TLEV	TIERI	LEVI LEV	LEV1 LEV	TLEV	TIER1	LEV1 LEV	LEV1 LEV	LEVI LEV	TIERI	LEV1 LEV	TIER1	TIER1	TIER1	TIERI	TIERI	TIERI	TIERI	TIER1	TIER1	TIER1	TIER1	TIERI	ILEV	TLEV	TIER1						
Wainel Hallulactu	Test Group Name	WHNXV02.3BA1	WHNXV02.2SA1	XHNXV02.3PA3	XHNXV02.3PL2	XHNXV03.0FL2	XHNXT02.0UA2	XHNXV02.2SA1	VHNYVOZ 3PE3	YHNXV03.0FA3	YHNXT02.0UA2	YHNXV02.2SA1	YHNXV02.0MA3	1HNXV02.3VH2	THINXVOS.UMSU	1HNXV02.2E14	1HNXV02.0C5U	2HNXV02.3RDA	2HNXV02.3PNP	2HNXV03.0WYC	3HNXV02.0RJC	4HNXV02.2PJE	SNS2.0VJGFFK	TNS2.0VJGFFK	TNS3.0VJGFGK	VNC3 0VIG1EK	VNS3.0VJG1FK	VNS4.1VJG1EK	VNS4.1VJG1EK	WNSXV04.117A	WNSXV04.117A	XNSXV02.0A2A	THN2.2VJGKGK	VHN2.2VJGKGK	WGMX102.2124	XGMXT02.2122	XHNXV02.3BA1	
	Engine Size (liters)	2.3	2.2	2.3	2.3	m (	2,0	2.2	2:5	<u></u>	2	2.2	2	2.3	2	22	2	2.3	2.3	<sub>ر</sub>	2	2.2	2	7	m'	7 6	n (*)	4.1	4.1	4.1	4.1	2	2.2	2:2	2.7	2.2	2.3	•
	Model	Odyssey	Prelude	Accord	Accord	Accord	CR-V	Prelude	Accord	Accord	CR-V	Prelude	S2000	Accord	Accord	Prelude	S2000	Accord	Accord	Accord	S2000	S2000	G20	G20	130	130	130	045	045	045	045	620	Oasis	Oasis	Hombre	Hombre	Oasis	
	Make	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Honda	Infiniti	Isuzu	Isuzu	ISUZU	ISUZU	Isuzu																							
	Model	1998	1998	1999	1999	1999	1999	1999	2000	2000	2000	2000	2000	2001	7007	2001	2001	2002	2002	2002	2003	2004	1995	1996	1996	1997	1997	1997	1997	1998	1998	1999	1996	1997	1998	1999	1999	
$\vdash$		337	338	339	340	341	342	343	345	ب ر	347	348	349	<u>,</u>	351	353	354	5	356	357	359	360	361	362	363	1 10	2 9	367	368	369	370	371	372	3/3	3/4	376	377	1

	MFR Part Number	81906	81907	81907	81702	81907	81907	81/02	81/02	81702	81907	81907	81702	81702	81/02	81/02	81907	81907	81907	81907	81907	81701	81906	81906	81906	81906	81906	81/01	81900	81906	81701	81906	81906	81906	81906	81906	81709	81906	01/02
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	LINTVERSAL	INTVERSAL	UNIVERSAL														
	Conv. Location	5	n	٦	٦.	_	<u>~</u> -	_	<u>-</u>  -	1 ~	-	~	_	~	_	¥ -	_   	-	æ	_	~	=	=	1	Э	5	5	<b>=</b>	<b>=</b>	=	=	,=	) =	5	Э	ח	<b>=</b>	5 =	7
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/ 81900	Converter	TWC	TWC	TWC	TWC	2TWC	2TWC	ZIWC	21WC	2TWC	2TWC	2TWC	2TWC	2TWC	2TWC	ZIWC	ZIWC	2TWC	2TWC	2TWC	2TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	J MC	JWC	JWL JWL	CWL	TWC	TWC	TWC	TWC	TWC	TWC	)  - 
200	Exhaust Type	S	S	S	Ş	۵	۵	م	ء د	عاد	۵	Δ	۵	Δ	م	٥	عاد	۵۵	Δ	۵	α	S	SV	S	S	S	S	S	Λ	S	nυ	o v	S	S	S	S	S	Λ	n
ny 81	Weight Class	S	PC	PC	PC	ည	ည္က	7 (	S S	2 6	20	PC	PC	S	ည	7 6	7 6	2 0	PC	PC	PC	<u>ک</u>	ည္ရ	20	PC	PC	S (	2 2	7 6	7 2	ا د	ر د	20	S	PC	PC	ည	2	7
ing Company 81700 /	Certification Level	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	IEK1	TIERI	TIERI	TLEV	TLEV	TLEV	TLEV	TLEV	ILEV	ILEV TI EV	TLEV	TLEV	TLEV	TLEV	TIER1	TIERI	TIER1	TIER1	TIER1	TIER1	TIERI	TIEKI	TIEKI	TIFRI	TTER 1	TIERI	TIER1	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	רבאז רבא
Walker Manufacturing	Test Group Name	RTY3.0VJGFEK	STY3.0VJGFEK	TTY3.0VJG1GK	VTY3.0VJGKFK	WTYXV04.0DBB	WTYXV04.0DBB	WIYXV04.0DBB	WTYXV04.0DBB	WITXV04.0DBB			XTYXV04.0DBA			XIYXV04.0DBA		YTYXV04.0DDA		YTYXV04.0DDA		STK1.8VJG1EK	TTK1.8VJGKEK	VTK2.5VJGKEK				VTK1.8VJGKFK	WIKXV02.5VB2	WIKXV02.5VB4	WTKXV02.5VB3	XTKXV02 5VB2	XTKXV02.5VB4	YTKXV02.5VB4	1TKXV01.8CJA	2TKXV01.8CJA	3TKXV02.3CJM	31KXV01.8CJA	41KXVUZ.3AJA
Š	Engine Size (liters)	3	3	3	3	4	4	4	4	1	4	4	4	4	4	4	4	1 4	4	4	4	1.8	ω α	2.5	1.8	2.5	2.5	1.8	2.5	2.5	2.5 a	2 2	2.5	2.5	1.8	1.8	2.3	1.8	7.3
	Model	ES300	ES300	ES300	ES300	GS400	GS400	LS400	LS400	50400	GS400	GS400	LS400	LS400	SC400	SC400	65400	15400	LS400	SC400	SC400	Protege	Miata	626	Miata	Millenia	9-XW	Protege	979	Millenia	Millenia	1101cgc	Millenia	Millenia	Miata	Miata	9	Miata	٩
	Make	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Lexus	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda	Mazda								
	Model	1994	1995	1996	1997	1998	1998	1998	1998	1998	1999	1999	1999	1999	1999	1999	2000	2000	2000	2000	2000	1995	1996	1997	1997	1997	1997	1997	1998	1998	1998	1000	1999	2000	2001	2002	2003	2003	2004
	ò	379	380	381	382	383	384	385	386	387	389	390	391	392	393	394	395	397	398	399	400	401	402	404	405	406	407	408	409	410	411	412	414	415	416	417	418	419	420

	MFR Part Number	81702	81906	81907	81907	81907	81907	81908	81907	81907	81907	81908	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81706	81706	81908	81908	81907	81908	81907	81703	81701	81701	81702	81701	81702	81702	81/02	81703
	Converter Part Type	UNIVERSAL	UNIVERSAL .	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	LINTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	LINTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL						
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	Total Converter	1	1	1	1	1		1-	1	1	1	1	7	1	1	1	1 -	1	1	1		٠,	7	2	1	1		1	1	<u>'</u>	-	1	1	1	1		-1	1-1
/ 81900	Converter	TWC	TWC	TWC	TWC	TWC	TWC	ZWL	TWC	TWC	TWC	TWC	TWC	JWC	JWC	JWL	TWC	TWC	TWC	TWC	TWC	JWC	2TWC	2TWC	TWC	TWC	TWC	JWL JWL	CWL	JWC	TWC	TWC	TWC	TWC	TWC	JML	JWF	TWC
81700 /	Exhaust Type	S	S	S	S	S	ΛU	) V	S	S	S	S	S	n u	nυ	'nν	S	S	S	S	S	n u	nc	۵	S	S	S	nυ	'n	S	S	S	S	S	S	S	ΛU	n S
ny 81	Weight Class	ည	δ	PC	PC	S	۲ <u>۲</u>	١	ည	δ	PC	ည	ည္က	2 2	ا د	2 6	LDT1	S	PC	LDT1	ပ္က	۲	2 0	S	LDT1	LDT1	S F	בנו ד	2 2	) <u>V</u>	S	S	PC	PC	ည	ည္ကုပ္	ا ک	7 2 2
Appendix D-182-45 acturing Company 8	Certification Level	LEV1 LEV	LEV1 LEV	TIER1	TIER1	TIER1	TIERI	TTFR1	TIERI	TIER1	TIER1	TIER1	TIER1	TIEKI	TIERI	FV1   EV	LEVI LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	TIER1	TIERI	TIFRI	TIER1	TIER1	TIER1	TIERI	TIERI	TYFR1	TIERI	TLEV	TIER1	TIER1	TIER1	TIER1	TIER1	TIERI	TIERI
Appendix D-182-4 Walker Manufacturing Company	Test Group Name	4TKXV01.8AJA	4TKXV01.8AJA	SDS2.0VJGFEK	TDS2.0VJGFEK	TDS2.0VJGFEL	TMT2 418GEEK	VMI 3 5VIGFEK	VDS2.0VJGFEK	VDS2.0VJGKEK	VDS2.4VJGKFK	WMLXV03.5GBG	WDSXV02.0GBK	WDSXV0Z.0GBP	YDCYVO2 OGBD	3MTXV02 OGTS	3MTXT02.4GNG	4MTXV02.0GBB	4MTXV02.4GBB	4MTXT02.4GBB	SNS2.4VJGFFK	TNC2 400 GFEK	TNS3 0V1GFGK	TNS3.0VJGFGK	IVI	TNS2.423G1EK	VNS2.4VJGKFK	WNSXV02 4438	ACAO COVXXIX	TGM3.8V8GFFK	TGM2.4VJG2EK	TGM2.4VJGKEK	TGM3.1V8GFEK	TGM2.2V8GKEK	TGM3.1V8GFEK	TGM3.1V8GFEK	TCM3 6VOCEEV	VGM3.8V8G1FK
3	Engine Size (liters)	1.8	1.8	2	2	7	4.4	3.5	7	2	2.4	3.5	7	7	7	1	2.4	2	2.4	2.4	2.4	7	7, ~	m	2.4	2.4	2.4	7 7		3.8	2.4	2.4	3.1	2.2	3.1	3.1	4.0	3.8
	Model	Miata	Miata	Eclipse	Eclipse	Eclipse	Mighty May	Diamante	Eclipse	Eclipse	Eclipse	Diamante	Eclipse	Eclipse	Foliose	lancer	Outlander	Lancer	Lancer	Outlander	240SX	X002X	300ZX	300ZX	Pickup	Pickup	240SX	240SX	Sentra	88	Achieva	Achieva	Achieva	Cutlass Ciera	Cutlass Ciera	Cutlass Supreme	Cuttass Supreme	88
	Make	Mazda	Mazda	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitcubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Nissan	Niccan	Nissan	Nissan	Nissan	Nissan	Nissan	Nissan	Nissan	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile
	Model	2004	2004	1995	1996	1996	1996	1997	1997	1997	1997	1998	1998	1000	1999	2003	2003	2004	2004	2004	1995	1006	1996	1996	1996	1996	1997	1998	1999	1996	1996	1996	1996	1996	1996	1996	1996	1997
		421	422	423	424	425	427	428	429	430	431	432	433	435	436	437	438	439	440	441	442	444	+	-	Н	448	449	4	452	╀	Н	455	Н	457	4	459	+	462

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	MFR Part Number	81909	81701	81701	81701	81702	81703	81703	81909	81909	81701	81701	81701	81701	81701	81703	81703	81703	81909	81909	01/01	81701	81701	81703	81703	81701	81703	81701	81701	81909	81909	81909	81909	81701	81701	81909	81909	81703	81701	81909
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	LINTVERSAL	UNIVERSAL												
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	Monitored Converter	-	-1	-1	1	-1	-1	-	-	1	1	-	-	1	1	1	-1	규.	ᆌ,	- -	<del>,</del>	-	-	-1		-	1	-	-	1	1	1	1	1	1	11		7	-	ᅴ
	Total Converter	-	П	1	1	1		-	- -	1	-	-	-	1	1	1	1		┦.	-  -	-	- -	ļ.,	-	-	-	1-	-	-	1	1	1	1	1	1			7	-	7
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC	IWC	TWC	J.M.C.	I WC	OWE	TWC	TWC	TWC	TWC	TWC	J.M.C	TWC																					
200	Expanst Type	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	N C	ΛV	7 0	n s	S	S	S	S	) N	S	S	S	S	S	S	S	S	S	S	S	S	S
ny 81	Weight Class	S	PC	PC	PC	<sub>Ω</sub>	ည္က	<u>ح</u>	S S	<u> </u>	δ	δ	ည	PC	δ	βC	S	ည္က	ي ر	۲	2 2	5 Z	δ	PC	Эd	S S	2 0	δ	PC	PC	ЬC	Ω	δ	Ω	Ω	ည	ည	2	ည	S S
ring Compa	Certification Level	TLEV	TLEV	TIER1	TIER1	TIER1	TIER1	IEKI	TLEV	TLEV	TIER1	TLEV	TIER1	TIER1	TLEV	TLEV	TIER1	TIER1	I LEV	ILEV TI EV	1 5/1 1 5/	TLEV	LEV1 LEV	TLEV	TLEV	LEV1 LEV	LEV1 LEV		LEV1 LEV	LEV1 LEV		LEV1 LEV		LEV1 LEV						LEV1 LEV
Walker Manufacturing Company 81700 /	Test Group Name	VGM3.8V8G2EK	VGM2.4VJG2EK	VGM2.4VJG1EK	VGM3.1V8G1EK	VGM3.1V8G1EK	VGM3.8V8G1FK	VGM3.8V8G1FK	WGM3.8V8G2EK	WGMXV03.8048	WGMXV02.4025	WGMXV02.4026	WGMXV03.1042	WGMXV03.1043	WGMXV03.1044	WGMXV03.8048	WGMXV03.8051	WGMXV03.8051	WGMXV03.8048	XGMXV03.8048	VCMV/02 4027	XGMXV03.4042	XGMXV03.1043	XGMXV03.5064	XGMXV03.8048	YGMXV02.4022	YGMXV03.5064	1GMXV02.4022	1GMXV03.8043	1GMXV03.5064	1GMXV03.5065	1GMXV04.6065	1GMXV03.5065	2GMXV02.4022	2GMXV03.8043	2GMXV03.8043	2GMXV04.6065	2GMXV03.8043	3GMXV02.2025	3GMXV04.6065
×	Engine Size (liters)	3.8	2.4	2.4	3.1	3.1	3.8	χ. 0	χ α α	3.8	2.4	2.4	3.1	3.1	3.1	3.8	3.8	3.8	000	2.8 A	, ,	3.4	3.1	3.5	3.8	2.4	3.5	2.4	3.4	3.5	3.5	4	3.5	2.2	3.4	3.5	4	3.5	7:7	4
	Model	88	Achieva	Achieva	Achieva	Cutlass Supreme	ISS	Kegency	Regency	88	Achieva	Achieva	Achieva	Cutlass	Cutlass	Intrigue	SST	Regency	Regency	Alero	Oloro	Alero	Cutlass	Intrigue	Intrigue	Alero	Intriane	Alero	Alero	Aurora	Aurora	Aurora	Intrigue	Alero	Alero	Aurora	Aurora	Intrigue	Alero	Aurora
	Make	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldsmobile	Oldemobile	Oldsmobile																		
	Model	1997	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1998	1998	1998	1998	1998	1998	1230	1999	1000	1999	1999	1999	1999	2000	2000	2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2003	2003
	o Z	463	464	465	466	467	468	403	470	472	473	474	475	476	477	478	479	480	100	482	787	485	486	487	488	489	491	492	493	464	495	496	497	498	499	200	201	502	503	504

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	MFR Part Number	81906	81703	81701	81707	81702	81702	81906	81906	81/01	81703	81909	81701	81701	81702	81703	81/03	81906	81701	81701	81703	81909	81701	81701	81702	81702	81703	81703	81906	81906	81/01	81701	81909	81909	81701	81701	81701	81703	
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INIVERSAL	UNIVERSAL															
	Conv. Location	5	n	) ):	=	5	5	5	5	5 =	, -	5	) )	n	<b>5</b>	5	5 =	1	5	n	5	<b>=</b>	,=	)	)	5	5	5	<del> </del>	5	<b>-</b>	5	5	5 :	5	<u> </u>	=		
	Monitored Converter		1	-	-  -	<del> </del>	1			- -	<del> </del>	<del> -</del>	1-1	1	-1		- -	-	-	1	ᆔ	- -	-	-	1	_		-	7	-	-1	-	- -	-,	귀.	-	+	柌	
	Total Converter		1	Ξ,		-	-1	-1			1-	-	1	1	1		- -	1-		1		- -	1	ļ-,	1				-	-	-		٦,	-		-	1	一	
/ 81900	Converter	TWC	TWC	TWC	JWL	TWC	TWC	TWC	TWC	JWC	JMC	TWC	TWC	TWC	TWC	TWC	) M.	JWC	TWC	TWC	TWC	TWC	JML	TWC	TWC	TWC	TWC	TWC	JMC	TWC	J.M.C	TWC	JWC	LWC	TWC	TWC	TWC	TWC	
81700	Exhaust Type	S	S	S	ΛV	S	S	S	S	S	S	S	S	S	S	S	Λ (	o v	S	S	S	S	v	S	S	S	S	S	S	S	S	S	S	S	S	S	sν	S	
ny 81	szel) thei9W	S	PC	S S	ي ر	S	ည	PC	ပ္ထ	ည္ရ	2 0	S	PC	PC	PC	ပ္ထု	ي د	2 2	PC	PC	PC	ည္က	) La	PC	PC	PC	ည	<u>م</u>	ပ	2	<u>ح</u>	2	۲ کارو	<u>ا</u> ا	S S	ည	2	2 2 2	
acturing Company 8	Certification Level	TLEV	TIER1	TIER1	1LEV TIFR1	TIERI	TIER1	TLEV	TIER1	TIER1	TIERI	TLEV	TLEV	TIER1	TIER1	TIER1	I LEV	TIFRI	TLEV	TIER1	TIER1	TLEV	TIEV	TIERI	TIER1	TLEV	TIER1	TLEV	TIER1	TLEV	11EK1	TLEV	ILEV	TLEV	TLEV	LEV1 LEV	TLEV	TLEV	
Walker Manufacturing Company	Test Group Name	S1G2.3VJG2GK	TGM3.8V8GFFK	TGM2.4VJGKEK	TGM3 1VRGFFK	TGM3.1V8GFEK	TGM3.4VJGFEK	TGM2.2V8G2EK	TGM2.2V8GKEK	TGM2.4VJGKEK	VGM3.8V8G1FK	VGM3.8V8G2EK	VGM2.4VJG2EK	VGM3.1V8G1EK	VGM3.1V8G1EK	VGM3.8V8G1FK	VGM3.8V8GZEK	VGM2 2V8G1FK	VGM2.4VJG2EK	VGM2.4VJG1EK	WGMXV03.8051	WGMXV03.8048	WGMXV02 4026	WGMXV03.1042	WGMXV03.1043	WGMXV03.1044	WGMXV03.8051	WGMXV03.8048	WGMXV02.2022	WGMXV02.2023	WGMXV02.4025	WGMXV02.4026	XGMXV03.8048	XGMXV03.8048	XGMXV02.4025	XGMXV02.4027	XGMXV03.4042	XGMXV03.8051	
>	Engine Size (liters)	2.3	3.8	2.4	3.1	3.1	3.4	2.2	2.2	2.4	38	3.8	2.4	3.1	3.1	3.8	3.8	2.5	2.4	2.4	3.8	3.8	24	3.1	3.1	3.1	3.8	3.8	2.2	2.2	4.4	2.4	3.8	3.8	2.4	2.4	3.4	3.8	
	Model	Sunfire	Bonneville	Grand Am	Grand Am	Grand Prix	Grand Prix	Sunfire	Sunfire	Sunfire	Bonneville	Bonneville	Grand Am	Grand Am	Grand Prix	Grand Prix	Grand Prix	Sunfire	Sunfire	Sunfire	Bonneville	Bonneville Grand Am	Grand Am	Grand Am	Grand Prix	Grand Prix	Grand Prix	Grand Prix	Sunfire	Sunfire	Sunfire	Sunfire	Bonneville	Firebird	Grand Am	Grand Am	Grand Am	Grand Prix	
	Make	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	
	Model	1995	1996	1996	1996	1996	1996	1996	1996	1996 1996	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1998	1998 1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1999	1999	
		202	206	507	200	510	511	512	513	515	516	517	518	519	520	521	222	524	525	526	527	528	530	531	532	533	534	4	+	4	238	4	240	4	-+	4	544	+	

	MFR Part Number	81703	81701	81701	81701	81909	81909	81/01	81/01	81703	81701	81701	81701	81909	81909	81701	81701	81703	81701	81701	81701	81909	81909	81701	81702	81703	81701	81701	81701	81701	81702	81/01	81907	81907	81907	81907	81907	81907	81907	81907
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL																								
	Conv. Location	┝	n	n	n	5	_  -	- -	<u> </u>	+	5	_	n	Н	_	5	- - - -	+	5	ח	5	$\dashv$	<u> </u>	╀	╀	Н	$\dashv$	4	+	$\dashv$	+	$\dashv$	$\dashv$	<del> </del>	+	$\dashv$	$\dashv$	+	+	5
	Monitored Converter	-	1	1	1	-	- -	-1	- -	- -			1	1	-	_	- -	1-	-	1		-		1-	1-	1		ᅴ	-	-	,	-	긔,	<del>- -</del>	-	7	-	寸.	- -	_
	Total Converter		1	1	-1		-	-	- -	1-			1	1	-	-	- -	1		1	-1	-	- -	<del> </del>	1	1	-	-	-	-	- -		-1	ᆉ.	-	7	-	7	╬	7
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC	J.M.C	JWC	TWC	TWC	TWC	TWC	TWC	TWC	LWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	D WL	TWC	IWC	TWC	JMC	) M	TWC	TWC	TWC	J.M.F	IWC						
200	Exhaust Type	S	S	S	S	S	S	Λ (	S	n S	S	S	S	S	S	S	S	n S	S	S	S	S	S	) V	S	S	S	S	S	S	S	S	S	مار	0	S	S	S	مار	2
ny 81	Weight Class	PC	PC	PC	DC	<u></u>	S S	٢	2 6	2 2	S	S	PC	PC	DQ	S S	S C	2 2	PC	PC	PC	ည	D V	2 0	PC	ЪС	ည	ည	S S	ည	ည္က	<u>ا</u>	2	S S	2	2	ည္က	DG Ca	3 2	7
ing Compa	Certification Level	TLEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEVI LEV	TLEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	I FV1 I FV	LEV1 LEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	TLEV	ILEV	ILEV	TLEV	TLEV	TLEV	TLEV	ILEV				
Walker Manufacturing Company 81700 / 81900	Test Group Name	XGMXV03.8048	XGMXV02.2023	XGMXV02.2022	XGMXV02.4027	YGMXV03.8043	YGMXV03.8043	YGMXV02.4022	YGMXV03.8043	YGMXV03.8043	YGMXX02.2023	YGMXV02.4022	YGMXV02.4022	1GMXV03.8043	1GMXV03.8043	1GMXV02.4022	1GMXV03.8043	1GMXV03.8043	1GMXV02.4022	1GMXV02.2024	1GMXV02.4022	2GMXV03.8043	2GMXV03.8043	2GMXV03 8043	2GMXV03.8043	2GMXV03.8043	2GMXV02.2024	2GMXV02.4022	2GMXV02.4022	3GMXV02.2025	3GMXV03.8043	3GMXV02.2025	TGM1.9V8G2EK	TCM1.9VJGFEK	IGMI.9VJGZJL	TGM1.9V8G2EK	TGM1.9V8G2EK	TGM1.9VJGZJL	TOM1 OVOCOEV	I GMI. YVOGZEN
3	Engine Size (liters)	3.8	2.2	2.5	2.4	3.8	3.8	4:4	3.4	3.8	2.2	2.2	2.4	3.8	3.8	2.4	3.4	3.8	2.2	2.2	2.4	3.8	3.8	34	3.1	3.8	2.2	2.2	2.4	2.2	3.1	7.7	1.9	1.9	7:3	1.9	1.9	1.9	1.9	1.91
	Model	Grand Prix	Sunfire	Sunfire	Sunfire	Bonneville	Firebird	Grand Am	Grand Am	Grand Prix	Sunfire	Sunfire	Sunfire	Bonneville	Firebird	Grand Am	Grand Am	Grand Prix	Sunfire	Sunfire	Sunfire	Bonneville	Firebird	Grand Am	Grand Prix	Grand Prix	Sunfire	Sunfire	Sunfire	Grand Am	Grand Prix	Sunfire	SC1	205	302	SL	SL1	SI.2	SLZ	SWI
	Make	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Pontiac	Saturn	Saturn	Saturn	Saturn	Saturn	Saturn	Saturn	Saturn															
	Model	1999	1999	1999	1999	2000	2000	2007	2000	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002	2003	2003	2003	1996	1996	2661	1996	1996	1996	1990	1990
	ó	547	548	549	220	551	552	223	254	556	557	558	529	260	561	795	263	565	266	267	268	269	5/0	577	573	574	575	276	577	578	579	280	581	287	200	584	585	586	/8/	288

	MFR Part Number	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81907	81701	81701	81701	81701	81701	81701	81/01	81/01	01701	81701	81701	81701	81701	81/01	81702	81906	81906	81906	81906	81906	81906	81906	81906	81906	81906	81900
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	LINIVERSAL	UNIVERSAL																					
	Conv. Location	5	5	5	=	=	1	Э	Э	5	<b>=</b>	3	=	<b>†</b>	=	1=	5	Э	<b>=</b>	5	3	<b>†</b>	5	5	Э	5	3	=	,=	<b>†</b>	•	5	Э	n	ח	5	<b>=</b>	3	7
	Monitored Converter	-	1			1-	1	1	1	1		٦,		1	1	1	-	1	1	-		- -		ı F	1	1	-]-	- -	1	1	1	1	1	1	1	1		1	-
	Total Converter	П	1	-		1	1-	1	1	1	<u>-</u>	-1	1	1	1	1	1	1	1	-	٦.	٦ -	-1-	-	1	1		-1	1	1	1 -	1	1	1	1			-1	-
/ 81900	Converter Type	TWC	TWC	TWC	TWC	J CML	TWC	TWC	TWC	TWC	TWC	JWC	J.W.C	OWL OWL	JWL	TWC	TWC	TWC	TWC	IWC	JW.	) M-F	TWC	TWC	TWC	TWC	JWC	TWC	TWC	J.W.F	TWC	JMF	- MC						
81700	Exhaust Type	S	S	S	S	'n	S	S	S	S	S	Ŋ	ΛU	ηV	nυ	S	S	S	S	S	S	م ر	s s	S	S	S	S (	nυ	ηv	ηV	S	S	S	S	S	S	S	nυ	7
ny 81	Weight Class	SC	PC	PC	ည္ကုန္	کا ک	Ω	PC	DC	PC	ည္က	۲	٢١	ا د	کا ک	) O	PC	PC	ည္က	۲	۲		3 2 2	S	PC	S	1011	ا ک	2	LDT	PC	PC	LDT1	LDT1	ЫС	LDT1	LDT1	ا ک	7
acturing Company 8	Certification Level	TLEV	TLEV	TLEV	TLEV	TIFV	TLEV	TLEV	TLEV	TLEV	TLEV	ILEV	TIEV	71 57	I FV1 I FV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEVI LEV	LEVI LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	TIED 1	TIED1	TIERI	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TIERI	ITEKI
Walker Manufacturing Company	Test Group Name	TGM1.9VJGFEK	TGM1.9VJG2JL	VGM1.9V8G2EK	VGM1.9V8G2EK	VGM1 9V8G2EK	WGMXV01.9002	WGMXV01.9002	WGMXV01.9002	WGMXV01.9002	XGMXV01.9002	XGMXV01.9002	XGMXV01.9002	VCMYYOZ 2002	YGMXV02 4022	YGMXV02.4022	YGMXX02.2023	YGMXV02.4022	1GMXV02.4022	1GMXV02.4022	1GMXV02.4022	2007.2007.XM25	3GMXV02.2026	3GMXV02.2026	3GMXV02.2025	3GMXV02.2025	3GMX102.2123	411XV01.3VMA		TCK1 811CHHB	TSK1.3V5GDFB	TSK1.6VJGHHB	VSK1.61JGKHK	VSK1.81JGKHK	VSK1.6VJGKHK	WSKXT1.59CMC	WSKXT1.84CHC	WSKXVI.59CMC	KIY3.0VJGFEK
3	Engine Size (liters)	1.9	1.9	1.9	1.9	50	1.9	1.9	1.9	1.9	1.9	1.9	1:9	2,5	2.5	2.5	2.2	2.2	2.2	7.7	2.7	7:7	2.2	2.2	2.2	2.2	7:7	L.1 7	7:5	ς α	1.3	1.6	1.6	1.8	1.6	1.6	1.8	۱.۵	2
	Model	SW2	SW2	SC1	SL	SW1	SC1	SL	SL1	SW1	SC1	SL	SLI	101	151	SI	ST	LW1	L100	0071	LW200	one 1	Ion-2	Ion-3	1200	LW200	Vue	XX	Sidekick	Sidekick	Swift	06-X	Sidekick	Sidekick	06-X	Sidekick	Sidekick	06-X	Camry
	Make	Saturn	Caturn	Saturn	Saturn	Saturn	Saturn	Saturn	Saturn	Scion	Straiki	Suzuki	loyota																										
	Model Year	1996	1996	1997	1997	1997	1998	1998	1998	1998	1999	1999	1999	2000	2000	2000	2000	2000	2001	7007	2001	2002	2003	2003	2003	2003	2003	2004	1004	1006	1996	1996	1997	1997	1997	1998	1998	1998	1994 I
	No.	<u> </u>	_	591	_	594	_	296	$\sqcup$	_	599	+	100	┿	604	605	909	Н	4	4	010	+	613	╁-	₩.	-	+	010	+	+	-	623	624	625	<b>6</b> 26	_	628	+	-

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	MFR Part Number	81906	81907	81907	81906	81906	81906	81/01	81906	81907	81906	81906	81701	81906	81906	81906	81906	81702	81702	81906	81906	81701	81906	81906	81906	81701	81702	81701	81701	81906	81906	81906	81701	81702	81701	81701	81702	81906	81702	,
	Converter Part Type	UNIVERSAL     INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	7																		
	Conv. Location	5	5	n	D:	3	>	5	5 =	=	-	5	n	Э	5	=	=	1=	5	5	5	=	=	-	n	Э	3	5	5	∍	5	5	5	5	5	5	3	=	=	,
	Monitored Converter	-	1	1	1	-				٦-	-	1	1	1	-	7	-		1	1	-1	-]	7	,	1	1	1			-		-		-	-	-	-	1	1-	•
	Total Converter	1	1	1	1	7	-1	-	7	1	1	1	1	1	-	<u>-</u>	-1	1-	1	1	1		-	-	1	-1	-1			긥		-1						<u>-</u>	╬	1
/ 81900	Converter	TWC	TWC	TWC	TWC	TWC	TWC	JWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	JWC	- MC	JWL	TWC	TWC	DML	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	JWC	TWC	>
700	Exhaust Type	S	S	S	S	S	S	۸	Λ	nυ	S	S	S	S	S	۸ ر	nυ	n v	S	S	S	S	ςV	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	n v	,
ny 81	sealD thei9W	LDT1	PC	PC	LDT1	LDT1	LDT1	7	LDII	ا د	N N	PC	PC	LDT1	LDT1		בהוד	الم	В	PC	PC	S (	7 F	LDT1	LDT1	S	<sub>Ω</sub>	2	2	LDT1	LDT1	LDT1	ပ္	ပ္က	2	2	2		2 0	,
ring Company 81700	Sertification Level	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	IJEKI	TIEB	TIERI	TIER1	TIER1	TIER1	TIER1	TIER1	LIEKI	TIERI	TIFRI	TIER1	TIER1	TIER1	TIER1	TIER1	TIERI	TIER1	TIER1	TIER1	TLEV	TIER1	TIER1	TIER1	TIER1	TIER1	TIER1	TLEV	TIER1	TIER1	TIERI	TIERI	111111
Walker Manufacturing	Test Group Name	RTY2.71HGEEK	STY3.0VJGFEK	STY3.0VJGFEK	STY2.71HGEEK	STY3.41JG1GK	STY2.41HG1GK	SIY1.5VHGFEK	TY2./1HGKEK	TTY3 0VIG1GK	TTY1.8VJG1GK	TTY1.8VJG1GK	TTY1.5VHGFEK	TTY2.71HGKEK	TTY3.41JG1GK	11Y2.41HGKEK	TTV1 EVUCEEV	VTY3 0V1GKFK	VTY3.0VJGKFK	VTY1.8VJGKEK	VTY1.8VJGKEK		VTV2 71HGKEK									_					XTYXV03.0BBA	XTYXT02.4BBH		
×	Engine Size (liters)	2.7	٣	3	2.7	3.4	2.4	1.5	7	2	1.8	1.6	1.5	2.7	3.4	2.4	7:7	2 ~	8	1.8	1.6	1.8	1.5	3.4	2.4	1.5	3	1.8	1.5	2.7	3.4	2.4	1.5	8	1.8	1.5	8	2.4	7.T	,
	Model	T100	Avalon	Camry	T100	T100	Tacoma	lercel	4Runner	Avaion	Celica	Corolla	Paseo	T100	T100	lacoma	Targel	Avalon	Camry	Celica	Corolla	Corolla	Paseo	1100	Tacoma	Tercel	Camry	Corolla	Paseo	T100	T100	Tacoma	Tercel	Camry	Corolla	Paseo	Solara	Tacoma	Camry	7
	Make	Tovota	Toyota	Toyota	Toyota	Toyota	Toyota	loyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Loyota	Tovota	Toyota	Toyota	Toyota	Toyota	Toyota	Tovota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Tovota	107000
	Model	1994	1995	1995	1995	1995	1995	1995	1996	1996	1996	1996	1996	1996	1996	1996	1996	1997	1997	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1999	2000	7777
	ò	631	632	633	634	635	989	637	638	640	641	642	643	644	645	646	04/	640	650	651	652	653	654 655	656	657	658	629	099	661	662	663	664	999	999	299	899	699	670	677	V/ 2 L

			П	П	Т	Τ	Τ		П	7	Т	Т	Т	Τ	П	Т	Т	1	Т	T	П	1	Ţ	Τ	П	_	T	Т	Т	T	Τ			П	П	Т	П
	MFR Part Number	81702	81702	81701	81/02	81702	81702	81702	81701	81702	81702	81702	81701	81702	81702	81702	81/02	81/01	81702	81702	81702	81701	81702	81702	81702	81702	81702	81/02	81702	81702	81702	81702	81702	81702	81702	81702	81702
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL															
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	Total Converter	1	1	1	-]	1	1	1	1	-1		7	1-	-	-1		- -	1	1-	1	1		1	П	1			-]-		1	17	1	1	П	,  <u>-</u> -	-1	· []
/ 81900	Converter Type	TWC	TWC	TWC	JWC	JWL	TWC	TWC	TWC	TWC	JWC	JWC	JWL	TWC	TWC	TWC	J M	JWL	JWL	TWC	JMC	J.M.	JWL CWL	JMC	TWC	TWC	TWC	TWC	TWC	TWC	TWC						
700	Exhaust Type	S	S	S	S	nυ	S	S	S	S	م ر	ηυ	2	S	S	S	n c	nυ	ηV	S	S	S	S	S	S	S	S	'n	م د	S	S	S	S	S	S	م د	Š
-45 ny 81	Weight Class	PC	PC	PC	۲	<u>ح</u> ا ح	PC	PC	PC	ည	7 2	אַנ	20	2	PC	ည	7 2	ן מע	2 6	2	PC	<u>م</u> 8	PC	S	PC	<u>ا ۵</u>	S C	7 2	7 2	20	PC	PC	PC	2	DC C	7 6	20
Appendix D-182-45 Manufacturing Company 81700	Certification Level	TLEV	TLEV	LEV1 LEV	LEVI LEV	TIFRI	TLEV	TLEV	LEV1 LEV	LEV1 LEV	LIEKI	11.57	I EV1 I EV	LEV1 LEV	TIER1	TLEV	LEVI LEV	1 EV1 1 EV	FV1 FV	LEV1 LEV	LEV1 LEV	LEV1 LEV	TLEV	TIER1	TIER1	TLEV	TIERI	TIERT	TIFRI	TIERI	TIER1	TLEV	TIER1	TLEV	TIERI	TIFRI	TLEV
Appe Walker Manufactur	Test Group Name		YTYXV01.8DDB	YTYXV01.8FFA	Y I YXV01.5FFA	1TYXV03.0BBA	1TYXV01.8DDB	1TYXV01.8DDC	1TYXV01.8FFA	1TYXV01.5FFA	TIYXV03.0BBA	2TVXV01.8DDB	2TYXV01.8FFA	2TYXV01.5FFA	2TYXV03.0BBC	3TYXV01.8DDC	STAVOL SPIRA	ATYXVOI SVDE	4TYXV01 8VMC	4TYXV01.8VRE	4TYXV01.5VMA	4TYXV01.8VRE	TVW2.0V8G2EL	TVW2.0V8GKEM	TVW2.8V8GFGM	TVW2.0V8G2EL	TVW2.0V8GKEM	TWV2.8V8GFGM	TVW2 8V8GFGM	VVW2.0V8GKEM	VVW2.0V8GKEM	VVW2.0V8G2EL	VVW2.8V8GFGM	VVW2.0V8G2EL	VVW2.0V8GKEM	VVWZ.8V8GFGM	WVWXV02.0226
×	Engine Size (liters)	1.8	1.8	1.8	1:5	n m	1.8	1.8	1.8	1:5	γ γ	0, 0	0	1.5	3	8.	210	ρ α	0 0	1.8	1.5	1.8	77	~	2.8	7	76	٥٠٠	780	2	7	2	2.8	7	2	2.8	
	Model	Celica	Celica	Corolla	ECNO	Camry	Celica	Celica	Corolla	Echo	Solara	Celica	Corolla	Echo	Solara	Celica	Notice No.	Celica	e ila	Celica	Echo	Matrix	Golf	Golf	Golf	Jetta	Jetta	Jella	Passat	Cabrio	Golf	Golf	Golf	Jetta	Jetta	Passat	Beetle
	Make	Toyota	Toyota	Toyota	Toyota	Tovota	Toyota	Toyota	Toyota	Toyota	Toyota	Toyota	Tovota	Toyota	Toyota	Toyota	Toyota	Tovota	Tovota	Toyota	Toyota	Toyota	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswageri	Volkswagen	Volkswagen	Volkswagen						
	Model	2000	2000	2000	2000	2001	2001	2001	2001	2001	2007	2002	2002	2002	2002	2003	2002	2003	2004	2004	2004	2004 1996	1996	1996	1996	1996	1996	1006	1996	1997	1997	1997	1997	1997	1997	1997	1998
		673	674	675	677	678	629	089	681	682	200	685	989	687	889	689	203	697	693	_	Н	696	╄	Н	700	4	707	_	+-	-	707	708	709	710	711	_	714

	MFR Part Number	81702	81702	81702	81702	81702	81708	01/00	81702	81702	81702	81702	81702	81702	81702	81702	81/02	81702	81708	81706	81706	81702	81702	81702	81702	81702	81708	81702	81702	81/02	81/02	01702	81702	81702	01702	81/02	81702	81702	81702
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	INIVERSAL	UNIVERSAL	INIVEDCAL	INTVEDSAL	UNIVERSAL	UNIVERSAL	INIVERSAL	UNIVERSAL	UNIVERSAL												
	Conv. Location	>	ם	n	ר	<b>-</b>	<b>&gt;</b>  -	7	<u> </u>	5	n	b	n	∍	5	<b>=</b>	5 =	=	,  -	, -	~	Э	5	5 =	9 =	5	Э	∍	<b>=</b>	5	5 =	5 =	=	=	3 =	= =	=	)	
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	Total Converter		1	1	1		٦ ر	4	7	П	1	1	-1	귀	-		7	7	1	7	2	1		7	1		1		-	٦,	-1	٦-	-1	1	7	Ŧ	1	1-	
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC	ZIWC	TWC	J M	JWL	OWT.	2TWC	2TWC	TWC	TWC	JWC	J.M.C	TWC	TWC	TWC	TWC	J.M.C	JML	) W.F	) W.L	JAN-	JWL	J.W.C	JW.F	TWC	TWC							
200	Exhaust Type	S	S	S	S	S	S	عاد	S	S	S	S	S	S	S	S	S	nυ	) V	۵	D	S	S	S	2 0	S	S	S	S	۸	م ر	nυ	ŋυ	'n	ر ا	ΛU	ηv	S	S
ny 81.	weight Class	PC	PC	δ	ЬC	ည	) L	۲	<u>ک</u> ک	ည	PC	PC	PC	Ω	ပ္ထ	ည	7 2	ا د	٥	S S	PC	PC	PC	S S	ن ر	ည	PC	ည	ည္မ	۲ ا	۶ ۲	ا د	ی ر	ا د	ع د	۲	۾ ڍ	7 2 2	S
ing Compa	Sertification Level	TLEV	TLEV	TIER1	TLEV	TIER1	TLEV	TIEV	TLEV	LEV1 LEV	TLEV	TLEV	LEV1 LEV	TIER1	TLEV	LEV1 LEV	TLEV	TIER 1	TIFV	TLEV	TLEV	TLEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEV1 LEV	LEV1 LEV	TLEV	LEV1 LEV	LEVI LEV	LEVI LEV	TIEV		EVI LEV	TI EV	ILEV I EV1 I EV	LEVI LEV	LEV1 LEV	LEV1 LEV
Walker Manufacturing Company 81700 /	Test Group Name	WVWXV02.0223	WVWXV02.0223	WVWXV02.8224	WVWXV02.0223	WVWXV02.8224	WADXV01.8322	WADAV02.6324	XVWXV01.8228	XVWXV02.0227	XVWXV02.0223	XVWXV02.0223	XVWXV02.0227	XVWXV02.8221	XVWXV02.8224	XVWXV02.0227	XVWXV02.0223	XVWXV02.6224	XADXV01 8322	XADXV02.8324	XADXV02.8324	YVWXV01.8228	YVWXV02.0227	YVWXV02.0227	YVWXV02.6224	YVWXV02.8224	YADXV01.8332	1VWXV01.8229	1ADXV01.8346	1VWXV02.022/	1VWXV02.022/	1ADAV01.6346	1VWVV02 0227	1VWVV02.022/	1 V W A V U Z . 0 Z Z Z T	1ADXV01.8336	1VWXV02 0227		
8	(sietil) esiS enign∃	2	2	2.8	2	2.8	1.8	0.2	0.7	2	2	2	2	2.8	2.8	7	7,5	0.2 0.2	2 4	2.8	2.8	1.8	2	200	2,0	2.8	1.8	1.8	1:8	7	7	0	1.0	ر م ر	0.7	2 0	6:7	2.8	1.8
	Model	Cabrio	Golf	Golf	Jetta	Jetta	Passat	Passal	Beetle	Beetle	Cabrio	Golf	Golf	Golf	Golf	Jetta	Jetta	Jella	Paccat	Passat	Passat	Beetle	Beetle	Golf	Jetta	Jetta	Passat	Beetle	Beetle	Beetle	Cabrio	10 d	Jog Jog	ارما	105 105 105 105 105 105 105 105 105 105	Jetta	Jetta	Jetta	Beetle
	Маке	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswageri	Volkswaden	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen															
	Model	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1999	1999	1999	1999	1999	1000	1999	1999	1999	2000	2000	2000	2002	2000	2000	2001	2001	7001	2001	7007	2001	2001	7007	2001	2001	2001	2002
	O	715	716	717	718	719	720	727	723	724	725	726	727	728	729	730	731	733	734	735	736	737	738	739	14	742	743	744	745	49	/4/	448	750	751	127	757	757	755	756

MFR	Number	81702	81702	81702	81702	81702	81702	81702	81702	81702	81702	81/02	81702	81702	81702	81702	81702	81702	81/02	81702	81702	81702	81/02	81907	81907	81709	81709	81709	81709	81907	81/09	81/09	81207	81709	81709	81709	81709	81709
Converter	Туре	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	INTVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL
ocation	Conv. L	Э	Э	5	=	<b>=</b>	5 =	<b>†</b>	2	5	5	╡	=	,  -	ď	Э	5	٦,	× =	, -	æ	_	¥ :	> =	9=	) >	n	ח	n	5	5	5	=	)	5	Э	Э	n
tored erter	_	1	-	1		-		1	7	1	<del></del> 1	[-	-1	2	2	-	-1	7	7	2	2	2	7	- -	1	1	1	1	1			- -		1	-	1	1	1
nverter	OD letoT	1	1	-1	-	-	-1	1	7	1	-1	- -	٦-	2	2	1	-1	7	7	7	2	7	7	7	1	-	1	-1	1	-		- -	-1	1	-	1	1	,
/ 81900	Туре	TWC	TWC	TWC	TWC	TWC	JM-F	JWTC	2TWC	TWC	TWC	JWC	JWL	2TWC	2TWC	TWC	TWC	2TWC	ZIWC	2TWC	2TWC	2TWC	ZTWC	JWL	OW.	TWC	TWC	TWC	TWC	TWC	IWC	JMC	TWC	TWC	TWC	TWC	TWC	JML
S Type	Exhaus	S	S	S	S	S	Λ	ماد	۵	S	S	S	ΛV		۵	S	S	٥	ا د	n 🗅	О	Δ	م	ςV	n V	S	S	S	S	S	S	S	S O	n S	S	S	S	U
Class &	theisW	S	SC	S S	2	2 2	2 2	5 8	2 2	PC	Ω	2 2	۶ اه	2 2	2	2	ပ္ရ	2	7 2	<u>ا</u> ا	PC	<sub>Σ</sub>	ည္ကုန္	۲ ۲	<u>ا</u> ا	2	δ	PC	δ	2	<u>م</u>	ည	٦ ا	2 6	2	PC	PC	٥
OB level noi	Certificat	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEV1 LEV		LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV		LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	TIEBI	TIERI	TLEV	TLEV	TLEV	TLEV	TIER1	TLEV	TLEV	LEKI CV4 - CV	LEVI LEV	TLEV		LEV1 LEV	TIEV
Walker Manufacturing Company 81700	Group	2VWXV02.0227		2VWXV02.8228	2VWXV02.8224	2ADXV01.8346	2VWXV02.8224	2VWXV02.8228	2VWXV04.0229	3ADXV01.8346	3ADXV01.8346	3VWXV02.8228	3AUXV01.8346	3VWXV04.0229	3VWXV04.0229	4ADXV01.8346	4VWXV02.8228	4VWXV03.2220	4VWXV03.2220	4VWXV04.0229	4VWXV04.0229	4ADXV04.2345	4ADXV04.2345	SW2.4VJGFEK	VVV2 9V1GFFI	WVVXVZ.43PA1	WVVXV2.43PA1	WVVXV2.43PA1	WVVXV2.43PA1	WVVXV2.92EVA	WVVXV2.43PA1	WVVXV2.43PA1	WVVXV2.92EVA	XVVXV2 43PA2	XVVXV2.43AW2	XVVXV2.43PA2	XVVXV2.43PA2	CWASA CVVVAVV
(siers) 52	zi& ənign3	2	1.8	2.8	2.8	1.8	8.7	»,	4	1.8	1.8	5.8	200	2 4	4	1.8	2.8	3.2	3.2	6.0 4	4	4.2	4.2	2.4	2.3	2.3	2.4	2.3	2.4	2.9	2.3	2.4	6.5	2.3	2.3	2.3	2.4	7
	Моде	Cabrio	Golf	Golf	Golf	Jetta	Jetta	Jetta	Passat	Beetle	Golf	Solf	Jetta	Passat	Passat	Beetle	Golf	Golf	Golf	Passat	Passat	Phaeton	Phaeton	850	096	C70	C70	870	S70	290	V70	۷۲0	060	220	820	S70	870	820
	Маке	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volkswagen	Volvo	ONION	Volvo	Volvo	Volvo	Volvo	Volvo	Ovloy							
Model	Year	2002	2002	2002	2002	2002	2002	2007	2002	2003	2003	2003	2003	2003	2003	2004	2004	2004	2004	2004	2004	2004	2004	1995	1996	1998	1998	1998	1998	1998	1998	1998	1998	1999	1999	1999	1999	1000
	o Z	757	758	759	260	761	762	5/2	765	99/	767	89/	69/		772	773	774	775	776	***	779	780	781	782	26	785	786	787	788	789	230	791	262	5	1	38	797	700

	MFR Part Number	81907	81907	81709	81709	81709	81709	81/09	81709	81709	81907	81907	81907	81702	81709	81709	81907	81709	81702	81709	81709	81907	81907	81709	81709	81709	81702	81709	81709	81702	81/09	01709	81709	81702	81709	81709	81702	81709	81/02
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	MIVERSAL								
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	Monitored Converter	-1	1	1		-1	-1,	_		- -	-	-1	1	1		_	- -	1	1	1	1	-	- -	1-		-	-	-	-	귀.	- -	1	4	-		1	급,	ホ	-
	Total Converter	-1	-	1	1	-		_		- -		+1	1	1		_	- -	1-		1	1		- -	1-	-		ᅴ	귀		-1	- -	╬	1-			1	-	_ -	7
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC	J MC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	TWC	) WC	TWC	TWC	TWC	TWC	TWC	TWC	- NAC
700	Expanst Type	S	S	S	S	S	S	S	S	n σ	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	nu	S	S	S	S	S	S	n
ny 81	Weight Class	ည	PC	PC	PC	<sub>Ω</sub>	ည္က	ک ا	ည္က	<del>ا</del> ا	S	PC	PC	PC	ည	<u>ا</u> ا	ည္ကုန္	2 0	D C	PC	PC	ည	ည္က	) V	PC	PC	ည	ပ္ထ	<u>ک</u>	S (	Σ S	ָ ער	2 0	δ	S	PC	<u>ک</u> (	ည္က	2
ring Compa	level noitsaification	TLEV	TLEV	LEV1 LEV	TLEV	LEV1 LEV	TLEV	LEVI LEV	LEV1 LEV	LEVI LEV	LEV1 LEV	TLEV	LEV1 LEV	LEVI LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	TLEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEV1 LEV	LEVI LEV	LEVI LEV	LEVI LEV	LEV1 LEV	LEV1 LEV			LEV1 LEV	LEVI LEV				
Walker Manufacturing Company 81700 /	Test Group Name	XVVXV2.78EN2	XVVXV2.92BU2	XVVXV2.43PA2	XVVXV2.43AW2	XVVXV2.43PA2	XVVXV2.43AW2	YVVXV2.43PA3	YVVXV2.43PA3	YVVXV2.43PA3	YVVXV2.43TF3	YVVXV2.78EN3	YVVXV2.92BU3	YVVXV1.95MJ1	YVVXV2.43PA3	YVVXV2.43PA3	1WXXV2.43TF3	1WXV2.43L5T	1WXV1.95L4T	1VVXV2.43L5T	1VVXV2.43L5T	1VVXV2.78T6T	1WXV2.92L6N	1VVXV2.43L5T	1VVXV2.43L5T	2VVXV2.43L5T	2VVXV1.95L4T	2WXV2.43L5T	2WXV2.43L5T	2WXV1.95L4T	2VVXV2.43L51	2VVVV2.43L31	3VVXV2.43L1T	3VVXV1.95L1T	3VVXV2.43L1T	3VVXV2.43L1T	3WXV1.95L1T	3VVXV2.43L1T	3VVAVZ.*3L11
Š	Engine Size (liters)	2.8	5.9	2.3	2.3	2.4	2.4	5.3	2.4	2.3	2.4	2.8	5.9	1.9	2.3	2.4	2.4	2.4	1.9	2.3	2.4	5.8	2.9	2.3	2.4	2.4	1.9	2.3	2.4	1.9	2.3	4.4	2.4	1.9	2.3	2.4	1.9	2.3	4.4
	Model	280	280	۸۷0	020	۸۷0	V70	C/0	C70	S70	S70	280	280	V40	۸۷0	۸۷٥	020	C70	S40	098	09S	280	580	02A	٧٧٥	C20	S40	260	Se0	V40	0//0	0/70	C20	S40	260	098	V40	070	0//0
	Make	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	ONION	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo	VOIVO								
	Model	1999	1999	1999	1999	1999	1999	7000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2001	2001	2001	2001	2001	2001	2001	2001	2002	2002	2002	2002	2002	2002	2002	2003	2003	2003	2003	2003	2003	7002 T
	ó	799	800	801	805	803	804	802	808	808	809	810	811	812	813	814	815	817	818	819	820	821	822	824	825	826	827	828	829	830	831	932	834	835	836	837	838	839	040

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	MFR Part Number	81709	81709	81709	81709	81709	81709
	Converter Part Type	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL	UNIVERSAL
	Conv. Location	l	n	n	Τn	n	n
	Monitored Converter	1	1	1	1	1	1
	Total Converter	1	1	1	1	1	1
/ 81900	Converter Type	TWC	TWC	TWC	TWC	TWC	TWC
700	Exhaust Type	S	S	S	S	S	S
y 81	Weight Class	2	SC	2	PC	PC	PC
acturing Company 8	Certification Level	LEV1 LEV					
Walker Manufacturing Company 81700 / 81900	Test Group Name	4VVXV2.52L1T	4VVXV2.52L1T	4VVXV2.52L1T	4VVXV2.52L1T	4VVXV2.52L1T	4VVXV2.52L1T
3	Engine Size (liters)	2.3	2.4	2.3	2.5	2.3	2.5
	Model	C20	C70	098	998	020	020
	Make	Volvo	Volvo	Volvo	Volvo	Volvo	Volvo
	Model	2004	2004			2004	2004
	ġ	841	842	843	844	845	846